	Application No.	Applicant(s)	
Notice of Allowability	10/736,741	ZIPPER, ELIAV	
	Examiner	Art Unit	
	Blane J. Jackson	2618	
	Biarie J. Jackson	2010	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT ROOF OF THE OFFICE OF UPON PETITION BY THE OFFICE OF THE OFFICE	(OR REMAINS) CLOSED in the or other appropriate communic IGHTS. This application is sub-	is application. If not included cation will be mailed in due course. THIS	ive
1. This communication is responsive to the RCE with IDS file	<u>d 06 September 2007</u> .	•	
2. The allowed claim(s) is/are <u>4-8 and 11-27</u> .			
<ul><li>3. ☐ Acknowledgment is made of a claim for foreign priority ur</li><li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li></ul>		f).	
Certified copies of the priority documents have			
2. Certified copies of the priority documents have			
3. Copies of the certified copies of the priority do	cuments have been received in	this national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS ( as "replacement sheets") must	st be submitted.		
<ul><li>(a) ☐ including changes required by the Notice of Draftspers</li></ul>	son's Patent Drawing Review (	PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	•		
(b) including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the dhe header according to 37 CFR d	drawings in the front (not the back) of I.121(d).	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATER FOR THE DEPOSIT OF BIOLO	IAL must be submitted. Note the DGICAL MATERIAL.	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Infor	mal Patent Application	
Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sum	mary (PTO-413),	
3. La Information Disclosure Statements (PTO/SB/08),		il Date	
Paper No./Mail Date			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Sta	atement of Reasons for Allowance	

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### **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under Ex Parte Quayle, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 06 September 2007 has been entered.

#### Information Disclosure Statement

The Information Disclosure Statement filed 06 September 2007 has been reviewed and made of record. With respect to the most similar cited prior art, Barak et al. teaches a power amplifier comprising an outphasing system operative to control the variable phase and the amplitude of the input signal in order to achieve high efficiency at low desired output powers. However the claim language of the independent claims of the current application teach an RF power amplifier comprising an outphasing modulator with further identification of the functional elements of the outphasing modulator.

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# Allowable Subject Matter

Claims 4-8 and 11-27 are allowed. The following is a statement of reasons for the indication of allowable subject matter: The prior art made of record teaches various methods of a RF powr amplifier that includes an outphasing system to achieve high efficiency but does not teach an RF power amplifier comprising an outphasing modulator with respect to the claimed elements.

As to claim 4, the prior art made of record does not teach an outphasing modulator comprising multiplying a first and second phase shifted signal by a respective first and second amplitude modulation signal with a first and second scaling factor and generating outphased modulated signals from the first and second phase shifted modulated signals.

As to claim 8, the prior art made of record does not teach setting a scaling factor once per command to set an average output power of output signals of a power amplifier, said output signals generated by amplifying outphased modulated signals by said power amplifier and said outphased modulated signals generated from said phase shifted modulated signals.

As to claims 17, 21 and 24, the prior art made of record does not teach an outphasing modulator comprising a multiplier to multiply an amplitude modulation signal by a phase modulated carrier signal to generate a modulated signal and a phase splitter coupled to the multiplier to generate phase shifted modulated signals.

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## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure includes: Kolanek (US 6,633,200) and Gu (US 6,737,914).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blane J. Jackson whose telephone number is (571) 272-7890. The examiner can normally be reached on Monday through Friday, 8:30 AM-6:00 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Elen J. John